INDEX

SOVIET ELECTROCHEMISTRY
Volume 2, 1966



SOVIET ELECTROCHEMISTRY

Volume 2, 1966

(A translation of Élektrokhimiya)

A

Afendik, K. F. - 557, 896 Agladze, R. L - 493 Airapetyants, A. V. - 566 Alabyshev, A. F. - 762 Aladzhalova, N. A. - 1149 Alagova, Z.S. - 637 Alekseev, V. N. - 788, 818, 1162 Alenichev, V. E. - 1012 Alpatova, N. M. - 914 Altukhov, V. K. - 915 Amirkhanova, N. A. - 744, 1264 Andrusev, M. M. - 1351 Andryushchenko, F. K. - 689 Anoshchenko, I. P. - 470 Anosova, G. M. - 1099 Anufrieva, N. L. - 676 Arakelyan, R. A. - 519 Arvan, Kh. L. - 1106 Astakhov, I. L - 1211, 1228 Avramenko, V. L - 900 Avrutskaya, I. A. - 855 Ayupova, N. Kh. - 1351

B

Bagotskaya, I. A. - 303, 1108, 1131, 1321
Bagotskii, V. S. - 37, 154, 249, 475, 481, 592, 866, 969, 1117, 1198, 1325, 1364
Baigil'dina, S. Yu. - 1156
Baimakov, Yu. V. - 1233
Bakalyuk, Ya. Kh. 572
Bakh, N. A. - 574, 1344
Balashova, N. A. - 1093, 1244, 1312
Baraboshkin, A. N. - 895
Barbashinov, I. M. - 1021
Bardina, N. G. - 199, 307
Bashmakova, M. I. - 647

Batrakov, V. V. - 923

Beidin, V. K. - 693

Bek, R. Yu. - 138 Belashchenko, D. K. - 843 Belashchenko, G. L. - 843 Beletskaya, L. P. - 587 Belokolos, E. D. - 519 Belokopytov, V. P. - 345, 1149 Beloslyudova, T. M. - 651 Belyavskaya, V. B. - 1060 Beruchashvili, L. P. - 1023 Beskorovainaya, S. S. - 37, 154, 866, 1264 Bezuglyi, V. D. - 42, 740 Blander, M. - 580 Bobrov, V. S. - 269, 389 Boguslavskii, L. I. - 349 Boitsov, V. G. - 349 Bondarenko, A. V. - 1096 Boronenkov, V. N. - 703 Borovkov, V.S. - 1002 Brainina, Kh. Z. - 721, 838, 928, 1060 Bronskaya, A. Ya. - 60 Bruckenstein, S. - 995 Brusentseva, S. A. - 1023 Bubyreva, N. S. - 829, 1341 Budnitskaya, E. A. - 462 Burshtein, R. Kh. - 879, 1017, 1028 Butin, K. P. - 295, 587 Byallozor, S. G. - 529

C

Chernenko, A. A. - 579 Chirkov, Yu. G. - 345 Chizmadzhev, Yu. A. - 1, 121, 345, 813, 918, 1246, 1335 Chuchmarev, S. K. - 193 Conway, B. E. - 583

D

Dagaeva, I. G. - 759

Damaskin, B. B. - 769, 810, 813, 911, 1225, 1351

Daniel'-Bek, V. S. - 281, 621, 958, 1279

Davydov, B. É. - 110, 554, 1217,

1339

Davtyan, O. K. - 288, 417, 632, 728, 731

Dekhtyar', L. I. - 102

Delimarskii, Yu. D. - 487, 1056

Deryabin, A. A. - 274

Dobrodskaya, T. V. - 637

Dogonadze, R. R. - 579

Dolin, P. I. - 1023

Durdin, Ya. V. - 1240

Druz', V. A. - 219

Dyatkina, S. L. - 911, 1225

E

Eletskii, V. V. - 756
Eligulashvili, I. A. - 100
El'yashevich, A. M. - 655
Éntina, V. S. - 423
Epshtein, I. M. - 682
Érshler, A. B. - 295
Ershova, M. I. - 1211
Esin, O. A. - 193, 703, 903
Ezerskii, M. L. - 953

F

Fadeeva, L. E. - 382 Faizullin, F. F. - 105, 744, 1264 Fakhmi, M. - 295 Fasman, V. B. - 134, 823, 935, 1329 Fedorov, E. F. - 1274 Fedorov, Yu. K. - 778 Fedorovich, N. F. - 810 Fedotov, N. A. - 940, 1086 Fedotova, A. Z. - 504 Fedotova, N. Ya. - 509 Feenberg, I. Ya. - 762 Feoktistov, L. G. - 698 Fialkov, Yu. Ya. - 569 Filimonova, A. M. - 430 Filippov, T. S. - 1165 Filosofova, A. B. - 895 Filyaev, A. T. - 577, 1215 Fioshin, M. Ya. - 178, 581, 855, Flerov, V. N. - 395

Flisskii, M. M. - 803, 874
Fodiman, Z. I. - 161
Fomin, A. G. - 442
Fortunatov, A. V. - 413, 627
Freimanis, Ya. F. - 1297
Frumkin, A. N. - 118, 303, 358, 813, 1028

G

١

Gabitova, L. L. - 736 Gailis, A. K. - 1297 Gamburg, Yu. D. - 360, 449 Geiderikh, M. A. - 110 Gerovich, V. M. - 906 Ginberg, A. M. - 509, 686 Ginberg, T. A. - 509 Gindis, A. P. - 684 Girina, G. P. - 776 Glazatova, T. N. - 958, 1279 Gnusin, N. P. - 442 Gokhshtein, A. Ya. - 974, 1204 Goldstein, Y. - 582 Golubchik, E. M. - 834 Goral'nik, A. S. - 1090 Gorelkin, V. N. - 454 Gorodetskii, V. V. - 607, 614 Gorodetskii, Yu. S. - 114, 800 Grafov, B. M. - 766, 1144 Grebenyuk, V. D. - 442 Grigor'ev, N. B. - 303, 1131, 1321 Grishina, A. D. - 574 Grover, N. B. - 582 Gruzdev, A. B. - 766 Gryaznukhina, L. M. - 850 Gul'tyai, V. P. - 641, 1292 Gurevich, Yu. Ya. - 244

I

Iofa, Z. A. - 699, 923, 1111 Ivanov, I. A. - 1021 Ivanov, V. F. - 1111 Ivanov, V. T. - 338, 1220 Izidinov, S. O. - 1034, 1173 Izmailova, T. M. - 1104 Izosenkov, R. I. - 342

K

Kabanov, B. N. - 1211, 1347, 1356 Kaganovich, R. I. - 906 Kaikaris, V. A. - 217 Kakovskii, I. A. - 990 Kalyuzhnaya, E. A. - 728 Kalmykova, L. P. - 269, 389 Karpachev, S. V. - 577, 1215 Karpacheva, G. P. - 554 Karpavichus, A. P. - 78 Kashcheeva, T. P. - 330 Katrevich, A. N. - 514 Kazakevich, G. Z. - 969 Kazakov, V. A. - 174, 241, 604 Kazantsev, G. N. - 466 Kazarinov, V. E. - 776, 1070, 1223, 1269, 1312 Kessler, Yu. M. - 382, 914, 1338 Khaga, M. É. - 861 Khaimenov, A. P. - 1136 Khamiashvili, A. A. - 100 Khamidulin, R. L. - 1106 Khanin, A. B. - 1362 Kharkats, Yu. L - 1335 Khazova, O. A. - 249, 866 Kheifets, L. Ya. - 740 Khlystova, K. B. - 1317 Khomutov, N. E. - 669 Khonina, V. F. - 1111 Khopin, A. M. - 1017 Khramtsov, Yu. I. - 430 Khudyakov, V. L. - 792 Kisilevich, V. O. - 572 Kitaev, Yu. P. - 1156 Klimenkova, L. I. - 1093 Klyuev, B. L. - 1284 Klyushkin, I. E. - 143 Knots, L. L. - 788, 818, 1162 Knyazev, N. I. - 792 Kochegarov, V. M. - 223, 1120 Kochergin, S. M. - 887 Kokh, E. A. - 753 Kokhanov, G. N. - 1104 Kolosov, A. S. - 1009 Kolotyrkin, Ya. M. - 985 Konstantinesku, D. - 178, 1005 Kopylov, Yu. A. - 49, 778 Korchinskii, G. A. - 1274 Korob, L. A. - 1124 Korovin, N. V. - 1102, 1184 Krasnova, I. E. - 89, 230, 548 Kravtsov, V. I. - 377, 598, 1042 Krentsel', B. A. - 110 Krichmar, S. I. - 60, 557, 673 896, 1015, 1230 Krishtalik, L. I. - 199, 211, 307, 322, 364, 576, 583, 1029, 1075, 1238, 1354 Kron, A. K. - 655 Krotova, M. D. - 205, 312 Kruglikov, S. S. - 93 Krushcheva, E. I. - 258, 334 Kryuchkov, L. A. - 850

Kubasov, V. L. - 665

Kukoz, F. I. - 66

Kudryavtsev, N. T. - 93

Kulyavik, Ya. Ya. - 1356 Kurvyakova, L. M. - 263, 1099 Kur'yanov, V. A. - 892 Kuznetsov, A. M. - 579 Kuznetsov, V. A. - 1194 Kuzub, V. S. - 514 Kvaratskheliya, R. K. - 493

L

Lakeeva, G. A. - 219 Lapshina, A. E. - 709 Lebedev, A. N. - 990 Lebedev, V. A. - 148 Leikis, D. I. - 462, 759, 1162 Levin, A. I. - 850 Levin, É. S. - 161, 919 Levina, S. D. - 1124, 1228 Levinskas, A. L. - 184 Levinskene, A. M. - 78, 324 Levitskaya, S. A. - 84 Lezhava, T. L - 797 Lishcheta, L. I. - 641 Lobanova, K. P. - 1228 Lomakina, T. P. - 223, 1120 Loodmaa, V. R. - 861 Losev, V. V. - 607, 614, 1128, 1306 Lukovtsev, P. D. - 766 Luk'yanov, P. M. - 581 Lyapunova, L. G. - 843 Lysova, A. M. - 1009 Lyzlov, Yu. V. - 1028

M

Madi, L - 1047 Magudson, I. A. - 843 Mairanovskii, S. G. - 53, 108, 544, 663, 1292, 1358 Maklakov, A. I. - 1339 Maksimova, I. N. - 533 Malev, V. V. - 1240 Malyavinskaya, O. N. - 1082 Malyutina, N. P. - 1194 Mambeeva, D. B. - 784 Maminova, S. P. - 317, 889 Mansurov, G. N. - 1223, 1244, 1312 Many, A. - 582 Markhasev, B. L. - 97 Markin, V. S. - 121, 1246 Markushas, V. V. - 217 Marshakov, L. K. - 237, 915 Materova, E. A. - 637, 1236 Matveev, V. N. - 792 Mazitov, L. A. - 940, 1086

Mazitov, Yu. A. - 697, 940, 1086

Mendzheritskii, É. A. - 1198 Mirkind, L. A. - 178, 1005 Misyuk, É. G. - 288, 417, 632, 728, 731 Mitskevich, P. K. - 647

Mitskevich, P. K. - 647 Molodov, A. I. - 1306 Morachevskii, A. G. - 762 Morozov, A. M. - 1131 Motorykina, V. P. - 110 Mulik, A. A. - 97

N

Nakashidze, G. A. - 100
Naryshkin, I. I. - 807
Nasirov, F. M. - 1339
Nechaev, E. A. - 138
Nekrasov, N. L. - 334, 406
Nemchenko, A. M. - 778
Nesterov, B. P. - 1184
Nichkov, I. F. - 148, 466, 1012
Nikitin, E. V. - 105
Nikolaev, A. I. - 338
Nikolaev, N. I. - 430
Novakovskii, A. M. - 234
Novikova, Z. N. - 935
Novitskii, M. A. - 766
Nud'ga, V. N. - 102

0

Odynets, L. L. - 322 Ogromnov, P. V. - 1028 Oshe, A. L. - 1356 Osipov, O. R. - 914 Ostan-Zade, Sh. D. - 76

P

Padyukova, G. L. - 828 Palanker, V. Sh. - 592, 1325 Paleolog, E. N. - 504 Pal'guev, S. F. - 585 Pal'm, U. V. - 561 Panchenko, I. D. - 487 Pao-ming, Wei - 699 Parfenova, K. G. - 689 Pashchenko, M. L. - 829 Past, V. É. - 561, 861 Pastukhov, E. A. - 193 Penkalo, I. I. - 487 Pereverzev, A. A. - 800 Perevozkin, V. K. - 895 Peshekhonova, N. V. - 979 Petrii, O. A. - 423 Petrin, B. K. - 829, 1341 Petrosyan, V. A. - 108 Petrov, G. P. - 551 Petrov, Yu. N. - 102

Pleskov, Yu. V. - 205, 312, 330, 582, 756 Plokhov, B. A. - 395 Plotnikova, M. N. - 979 Plumane, D. É. - 566, 679 Pobedimskii, G. R. - 887 Polievktov, M. K. - 1358 Polukarov, Yu. M. - 71, 169, 360, 449, 870 Pomosov, A. V. - 263, 1099 Popel', S. I. - 274 Popereka, M. Ya. - 373, 780, 900 Popova, S. S. - 413, 627 Popova, T. I. - 1347, 1356 Pozdeeva, A. A. - 962 Pozin, Yu. M. - 234 Preis, E. - 1108 Presekina, T. N. - 1194 Priima, T. V. - 632 Pronskaya, A. Ya. - 896 Protsenko, A. V. - 736 Protsenko, P. I. - 736 Pshenichnikov, A. G. - 879 Pullerits, P. Ya. - 561 P'yankova, A. P. - 923

Pivoriunaite, I. Yu. - 217

R

Raicheva, S. - 1108
Rapota, T. M. - 42
Raspopin, S. P. - 148, 466, 1012
Red'ko, F. F. - 1034, 1173
Reimova, O. F. - 338
Reutov, O. A. - 587
Roikh, I. L. - 999
Roshchupkina, L. M. - 1111
Rotenberg, Z. A. - 322, 1124, 1228
Rotinyan, A. L. - 80, 751, 1253
Rozenshtein, L. D. - 100, 1019
Rozentsbeig, S. A. - 234
Rozhanskaya, T. I. - 1236
Rudoi, V. M. - 850

S

Sabot, K. - 1108
Samenchenko, S. A. - 66
Samokhvalov, G. I. - 53, 663
Sazhin, B. I. - 772
Semenova, Z. V. - 71, 169
Semov, Yu. I. - 999
Sevast'yanov, É. S. - 462, 759
Sevast'yanova, I. G. - 1026
Shabanov, O. M. - 883, 1136
Shalkauskas, M. I. - 499
Shantarin, V. D. - 703
Shatskaya, K. P. - 736

Sheikhetova, L. G. - 572 Shelepin, I. V. - 423 Shepelev, V. I. 1339 Shepelin, V. A. - 946, 1066 Shilina, G. V. - 1056 Shiryaev, A. M. - 143 Shishkina, M. V. - 1217 Shluger, M. A. - 226, 326 Shlyapnikov, V. A. - 1165 Shmit, I. K. - 110 Shubin, V. N. - 1023 Shul'ts, M. M. - 269, 389, 979 Shumilova, N. A. - 258, 334, 564 Shurpach, A. I. - 462 Shurygin, P. M. - 703 Shuvaev, V. P. - 772 Shvedov, V. P. - 1021 Sidorova, L. P. - 1344 Silakov, A. V. - 189 Silin', É. A. - 110, 566, 679, 1297 Siletskaya, K. A. - 780 Simakov, B. V. - 377, 598 Simanavichus, A. Yu. - 184 Simanavichus, L. E. - 78, 324 Simonova, M. V. - 80, 751 Simonova, N. A. - 1347 Sinyakov, Yu. I. - 93 Skalozubov, M. F. - 470, 834 Sklyarov, A. T. - 985 Skundin, A. M. - 592, 1117, 1325 Slotin, O. A. - 689 Smilga, V. P. - 454 Smirnov, M. V. - 585, 753, 883, 1136 Smirnov, Yu. D. - 560 Sofronkov, A. N. - 288 Sokolov, L. A. - 766 Sokol'skii, D. V. - 219, 651, 823, 935, 1329 -Solodovnichenko, L. M. - 436, 713 Solonar', A. S - 698 Solov'eva, Z. A. - 709, 1130 Speranskaya, E. F. - 784 Sribnyi, L. E. - 1306 Stepanova, O. S. - 718 Stolovitskii, Yu. M. - 49, 778 Stromberg, A. G. - 1249 Stul'gene, S. P. - 499 Stupichenko, R. N. - 728 Sundheim, B. R. - 580

T

Suzov, Yu. M. - 903

Taneeva, G, V, - 1329 Tarasenko, Yu. A, - 569 Tarasevich, M. R. - 258, 334, 1017 Tedoradze, G. A. - 295, 519

Titov, Yu. E. - 686

Titova, V. N. - 1052

Todres, Z. V. - 161

Tomilov, A. P. - 560, 1026, 1284

Tolkachev, V. E. - 999

Tomskikh, I. V. - 1233

Treier, V. V. - 1002

Trofimova, T. N. - 778

Troshin, V. P. - 214

Trushina, L. F. - 1249

Tsinman, A. I. - 514

Tsodikov, V. V. - 669

Tur'yan, Ya. I. - 1082

Tyrin, V. S. - 879

Tyurikov, G. S. - 189

U

Uflyand, N. Yu. - 234

Ugai, Ya. A. - 237

Ukshe, E. A. - 580

Uminskii, M. V. - 288, 417, 731

Uspenskii, S. I. - 226, 326

V

Vagramyan, A. T. - 76, 174, 241,

509, 604, 686, 1052, 1302

Vannikov, A. V. - 1344

Vasil'ev, Yu. B. - 37, 154, 249,

475, 481, 866, 1364

Vasil'eva, I. G. - 401, 1114

Vasilistov, N. P. - 189

Vavresyuk, L. V. - 237

Veselovskii, V. I. - 946, 1066

Vidadi, Yu. A. - 1019

Videiko, A. F. - 560

Vigdorovich, V. I. - 237

Vitvitskaya, G. V. - 281

Volkov, G. L - 665

Volkovich, A. V. - 1012

Vorontsov-Vel'yaminov, P. V. - 655

W

Weber, Jan. - 475, 481

Y

Yablokova, I. E. - 969

Yakovenko, V. I. - 1344

Yampol'skaya, É. G. - 1211

Yarunina, G. V. - 721

Yavich, B. S. - 807

Yurkinskii, V. P. - 807

Yushkevich, V. F. - 533

Z

Zakharov, M. S. - 718

Zalkind, Ts. I. - 946, 1066

Zebreva, A. L. - 84, 89, 230, 401,

548

Zelenskii, M. I. - 1042

Zhdanov, S. L - 811, 962

Zhikharev, A. I. - 887

Zhutaeva, G. V. - 564

Zotov, N. A. - 1317

Zubov, M. S. - 1302

Zytner, Ya. D. - 1253

SOVIET ELECTROCHEMISTRY Volume 2, 1966

(A translation of Élektrokhimiya)

	Engl./	Russ.
Number 1 January, 1966		
Some Problems of the Theory of Porous Gas Electrodes—Yu. A. Chizmadzhev The Theory of the Potential of a Platinum Electrode in Contact with an Organic Compound	1	3
-S. S. Beskorovainaya, Yu. B. Vasil'ev, and V. S. Bagotskii	37	44
of Its Derivatives in Ethanol and Other Alcohols-V. D. Bezuglyi and T. M. Rapota The Rapid-Relaxing Component of the Photoconductivity of Organic Liquids	42	50
-Yu. A. Kopylov and Yu. M. Stolovitskii	49	57
of the Vitamin A Group-V. G. Mairanovskii and G. I. Samokhvalov Study of the Levelling Effect During the Electrochemical Polishing of Metals	53	62
-S. I. Krichmar and A. Ya. Bronskaya	60	69
under Vibroabrasion-F, I. Kukoz and S. A. Semenchenko	66	74
- Yu. M. Polukarov and Z. V. Semenova.	71	79
BRIEF COMMUNICATIONS The Reversible Potential of the Selenium Electrode in Selenic Acid Solutions		
-Sh. D. Ostan-Zade and A. T. Vagramyan	76	85
A. M. Levinskene, and A. P. Karpavichus	78	87
of Hydrogen and Cobalt Ions—M. V. Simonova and A. L. Rotinyan	80	88
and A. I. Zebreva	84	92
Polarography—I. E. Krasnova and A. I. Zebreva	89	96
for Copper Deposition—S. S. Kruglikov, Yu. I. Sinyakov, and N. T. Kudryavtsev The Effect of Oxygen-Ion Activity on High-Temperature Reactions of Solid Oxides	93	100
B. I. Markhasev and A. A. Mulik	97	103
of Charge Carriers—I. A. Eligulashvili, G. A. Nakashidze, L. D. Rozenshtein, and A. A. Khamiashvili	100	107
Power Method for Determining Residual Stresses in Electrolytic Coatings Obtained	102	109
in an Ultrasonic Field—Yu. N. Petrov, L. I. Dekhtyar', and V. N. Nud'ga The Laws of the Anodic Oxidation of Gallium in a KOH Solution—F. F. Faizullin		
and E. V. Nikitin	105	112
-C Mainanavalii and V A Dornavan	100	115

	Engl.	Russ
Investigation of the Structural Transformations of Polyacrylonitrile Under the Influence of Infrared Radiation—É. A. Silin', V. P. Motorykina, I. K. Shmit, M. A. Geiderikh, B. É. Davydov, and B. A. Krentsel'	110 114	117 122
REVIEWS P. Delahay. Double-Layer and Electrode Kinetics. Reviewed by A. Frumkin	118	127
Number 2 February, 1966		
Correlation Functions of Classical System of Charged Particles. II. Systems of Particles		
with Different Charges - Yu. A. Chizmadzhev and V. S. Markin	121	131
of Powdered Minerals—A. B. Fasman	134	145
of the Discharging of Silver from Cyanide Electrolytes-E. A. Nechaev and R. Yu. Bek Internal Stresses in Deposits of a Hard Iron-Nickel Electrolytic Alloy	138	150
-I. E. Klyushkin and A. M. Shiryaev	143	155
-V. A. Lebedev, I. F. Nichtov, and S. P. Raspopin	148	160
Nonstationary Currents in the Adsorption and Dehydrogenation of Methanol on a Smooth Platinum Electrode—S. S. Beskorovainaya, Yu. B. Vasil'ev, and V. S. Bagotskii Flactical population of Europeans and Europeans of S. Levin, Z. J. Fodiman	154	167
Electrochemical Reduction of Furazans and Furoxanes – É. S. Levin, Z. I. Fodiman, and Z. V. Todres	161	175
Twinning during the Electrocrystallization of Copper on the (111) Face of a Copper Monocrystal-Yu. M. Polukarov and Z. V. Semenova	169	184
The Effect of Foreign Anions on the Kinetics of Partial Reduction of Chromic Acid -V. A. Kazakov and A. T. Vagramyan Investigation of the Mechanism of Anodic Processes of Electrolysis of Solutions of Monoesters of Disarbovylin Acids I. Advances Solutions of Monoesters	174	189
of Dicarboxylic Acids. I. Aqueous Solutions of Monoesters of Dicarboxylic Acids -L. A. Mirkind, M. Ya. Fioshin, and D. Konstantinesku	178	193
-A. L. Levinskas and A. Yu. Simanavichus	184	200
-A. V. Silakov, G. S. Tyurikov, and N. P. Vasilistov	189	205
O. A. Esin, and S. K. Chuchmarev	193	209
and L. I. Krishtalik Investigation of the Germanium-Methylformamide Interface by the Differential	199	216
Capacitance Method-M. D. Krotova and Yu. V. Pleskov	205	222
BRIEF COMMUNICATIONS The Problem of the Physical Meaning of Potential in Electrochemical Kinetic Equations		
L. I. Krishtalik	211	229
Sulfate of High Concentration - V. P. Troshin	214	232
I. Yu. Pivoriunaite, and V. V. Markushas	217	234
-V. A. Druz', G. A. Lakeeva, and D. V. Sokol'skii	219	236

	Engl./	Russ
The Electrode Potential of Arsenic Films in Alkaline Solutions-V. M. Kochegarov		
and T. P. Lomakina	223	240
Electrolyte – S. I. Uspenskii and M. A. Shluger	226	243
with Accumulation—I. E. Krasnova and A. I. Zebreva Influence of the Concentration of the Electrolyte and the Nature of the Cation on the Behavior of Nickel Oxide Electrodes. II.—N. Yu. Uflyand,	230	247
Yu. M. Pozin, A. M. Novakovskii, and S. A. Rozentsbeig	234	251
Solutions - I. K. Marshakov, Ya. A. Ugai, V. I. Vigdorovich and I. V. Vavresyuk The Influence of a Positive Cathodic Film on the Current Efficiency with Respect to the Metal	237	254
for the Reduction of Chromic Acid-V. A. Kazakov and A. T. Vagramyan	241	258
BOOK REVIEWS V. A. Myamlin and Yu. V. Pleskov. The Electrochemistry of Semiconductors.		
Reviewed by Yu. Ya. Gurevich	244	262
Number 3 March, 1966		
The Mechanism of the Electrooxidation of Methanol on a Smooth Platinum Electrode		
-O. A. Khazova, Yu. B. Vasil'ev, and V. S. Bagotskii	249	267
Voltage Pulses (E)—E. I. Krushcheva, N. A. Shumilova, and M. R. Tarasevich The Influence of Current Density and Cathode Material on the Electrocrystallization	258	277
of Powdered Copper-L. M. Kurvyakova and A. V. Pomosov	263	283
Glasses-V. S. Bobrov, M. M. Shul'ts, and L. P. Kalmykova	269	288
-A. A. Deryabin and S. I. Popel'	274	295
-V. S. Daniel'-Bek and G. V. Vitvitskaya	281	303
-É. G. Misyuk, O. K. Davtyan, A. N. Sofronkov, and M. V. Uminskii	288	311
and K. P. Butin	295	319
and I. A. Bagotskaya	303	329
and L. I. Krishtalik	307	334
Charging Curves—M. D. Krotova and Yu. V. Pleskov	312 317	340 346
BRIEF COMMUNICATIONS		
Anode Oxidation Kinetics of Graphite-L. L. Krishtalik and Z. A. Rotenberg	322	351
Some Properties of Solutions of Aluminum Bromide in Xylene-L. E. Simanavichus and A. M. Levinskene	324	353
The Influence of Ultrasonics on the Electrodeposition of Copper. II. Cyanide Electrolyte -S. I. Uspenskii and M. A. Shluger	326	355

	Engl.	Russ
The Differential Capacity of the Interface between Extensively Alloyed Germanium and an		
Electrolyte—T. P. Kashcheeva and Yu. V. Pleskov	330	359
and M. R. Tarasevich Calculation of Current Distribution on the Cathode with Allowance for the Nonlinear Law	334	363
of Polarization-V. T. Ivanov, A. I. Nikolaev, and O. F. Reimova	338	367
Determination of Ohmic Losses during Electrolysis with Gas Liberation—R. I. Izosenkov Current Formation in Electrodes with a Porous Surface—Yu. A. Chizmadzhev,	342	371
Yu. G. Chirkov, and V. P. Belokopytov An Automatic Assembly for Volt-Potential Measurement in Semiconductors—V. G. Boitsov	345	373
and L. I. Boguslavskii	349	377
J. O'M. Bockris and B. E. Conway (Eds.). Modern Aspects of Electrochemistry-Reviewed	352	380
by R. R. Dogonadze B. B. Damaskin, Principles of Modern Methods for Studying Electrochemical Reactions	354	382
-Reviewed by B. M. Grafov		
Number 4 April, 1966		
Dear Nikolai Nikolaevich Semenov	357	386
Isoelectric Conditions—A. N. Frumkin	358	387
of Thermo-emf-Yu. M. Polukarov and Yu. D. Gamburg	360	389
Theory of the Wear of a Graphite Anode in Chlorine Electrolysis-L. I. Krishtalik	364	393
Classification of Electrodeposited Metals by the Sign of Internal Stresses—M. Ya. Popereka Electrochemical-Reaction Mechanism in the System PtBr ₆ ² -/PtBr ₄ ² on a Platinum Electrode	373	402
-V. I. Kravtsov and B. V. Simakov	377	406
and Electrokinetic Data-Yu. M. Kessler and L. E. Fadeeva	382	413
and L. P. Kalmykova	389	420
-V. N. Flerov and B. A. Plokhov Electrochemical Properties of the Gallium Electrode: Copper-Cadmium-Gallium System	395	426
-L G. Vasil'eva and A. L. Zebreva	401	433
Electrochemical Reactions—L. N. Nekrasov	406	438
at Constant Polarizing Current Density-S. S. Popova and A. V. Fortunatov Investigation of Electrode Semiconducting Catalysts. II. Dependence of the Concentration	413	446
of Holes and of the Electrical Conductivity of Solid Solutions $\operatorname{Li}_X \operatorname{Cu}_{(1-\chi)} O$ on the Conditions of Their Formation—E. G. Misyuk, O. K. Davtyan, and M. V. Uminskii. Some Peculiarities of the Behavior of Palladium, Ruthenium, and Palladium-Ruthenium	417	451
Electrodes in Solutions of Organic Substances-V. S. Éntina, O. A. Petrii, and L. V. Shelepin	423	457
of a Granular Layer of Ion-Exchange Resins-N. I. Nikolaev, Yu. I. Khramtsov, and A. M. Filimonova.	430	465

	Engl.	Russ
Behavior of Dielectric Liquids in Strong Nonuniform Electric Fields—I. M. Solodovnichenko Electrical Conductivity of Ion-Exchange Columns—N. P. Gnusin, V. D. Grebenyuk,	436	472
and A. G. Fomin	442	479
- Yu. M. Polukarov and Yu. D. Gamburg	449	487
Statistical Theory of the Double Layer-V. N. Gorelkin and V. P. Smilga	454	492
BRIEF COMMUNICATIONS		
Alternating Current Bridge for Electrochemical Investigations—E. A. Budnitskaya, D. I. Leikis,	400	E 01
É. S. Sevast'yanov, and A. I. Shurpach	462	501
-G. N. Kazantsev, I. F. Nichkov, and S. P. Raspopin	466	505
CHRONICLES		
Interuniversity Meeting on Electrochemistry (May 31 to June 2, 1965, Novocherkassk		
Polytechnical Institute)-I. P. Anoshchenko and M. F. Skalozubov	470	509
Number 5 May, 1966		
Electro-Oxidation of Ethylene Glycol on a Platinum Electrode: I. Adsorption of Ethylene		
Glycol from Acid Solutions—Jan Weber, Yu. B. Vasil'ev, and V. S. Bagotskii	473	515
Electro-Oxidation of Ethylene Glycol on a Platinum Electrode: II. Effect of Electrode Potential on the Adsorption of Ethylene Glycol-Jan Weber, Yu. B. Vasil'ev,		
and V. S. Bagotskii	479	522
A Polarographic Study of the Cerium Group of Rare Earth Elements, with Base Electrolyte		
Consisting of a Fused LiC1-KCl Eutectic-I. D. Panchenko. I. I. Penkalo,		
and Yu. D. Delimarskii	485	529
Some Kinetic Principles of the Process of Electrosynthesis of Hydroxylamine Sulfate -R. K. Kvaratskheliya and R. I. Agladze	491	506
Electrolysis of Alkaline Solutions of Hypochlorite and Chlorite by a Glow Discharge	491	536
-M. I. Shalkauskas and S. P. Stul' gene	497	542
Electrochemical Polishing of Germanium -E. N. Paleolog and A. Z. Fedotova	502	547
The Effect of Ultrasonics on the Electrodeposition of Ni-Fe-Mo Alloys-A.T. Vagramyan,		
A. M. Ginberg, N. Ya. Fedotova and T. A. Ginberg	507	551
Influence of Water and the Nature of the Electrolyte on the Anodic Activation of		
Titanium in Methanol Solutions - A. I. Tsinman, V. S. Kuzub, and A. N. Katrevich	512	557
On the Interaction of Adsorbed Particles in the Simultaneous Adsorption of Two Substances on Mercury—G. A. Tedoradze, R. A. Arakelyan, and E.D. Belokolos	E 17	500
On the Influence of Certain Organic Substances Upon the Anodic Dissolution of Metals	517	563
in Neutral Solutions. IV. Anodic Dissolution of Copper -S. G. Byallozor	527	572
Electric Conductivity of Aqueous Solutions of Formic, Acetic, Oxalic, Sulfuric,		0.12
and Phosphoric Acids at High Temperatures-I. N. Maksimova		
V. F. Yushkevich	532	577
BRIEF COMMUNICATIONS		
Use of the Initial Surface of a Mercury Drop Electrode in Polarography		
-V. G. Mairanovskii	543	589
Investigation of Zinc-Nickel Amalgams by the Method of Amalgam Polarography with		
Accumulation-I. E. Krasnova and A. I. Zebreva	547	592
Electropolishing of Bismuth in a Saturated Solution of Sodium Chloride -G. P. Petrov	550	595
Electrical Properties of Molecular Complexes of Certain Polyconjugated System s—G. P. Karpacheva and B. É. Davydov	553	598
-1	000	000

	Engl.	Russ
Behavior of Nickel Anodes in Concentrated Sulfuric Acid Solutions-S. I. Krichmar		
and K. F. Afendik	556	600
Nitroxide -A. P. Tomilov, Yu. D. Smirnov, and A. F. Videiko	559	603
and P. Ya. Pullerits	560	604
and N. A. Shumilova On the Kinetics of the Change in the Electrophysical Properties of Polyacrylonitrile during Its Treatment with Infrared Radiation-É. A. Silin', D. É. Plumane,	563	606
and A. V. Airapetyants	565	608
Interacting Components-Yu. Ya. Fialkov and Yu. A. Tarasenko Properties of a Nickel Electrolyte Containing Formic Acid -Ya.Kh. Bakalyuk,	568	610
V. O. Kisilevich, and L. G. Sheikhetova	571	613
Polyethylene - A. D. Grishina and N. A. Bakh	573	614
of Hydrogen-L.1. Krishtalik	575	616
Solid Electrolyte-S. V. Karpachev and A. T. Filyaev	576	617
Structure of the Energy Spectrum of Electrons in Unordered Systems-R.R.Dogonadze, A. M. Kuznetsov, and A. A. Chernenko	578	620
REVIEWS B. R. Sundheim (Ed.). Fused Salts. M. Blander (Ed.). Molten-Salt Chemistry Reviewed by E. A. Ukshe	579	621
P. M. Luk' yanov. History of Crafts and Chemical Industry Reviewed by M. Ya. Fioshin	580	622
A. Many, Y. Goldstein, N. B. Grover. Semiconductor Surfaces Reviewed by Yu. V. Pleskov		
B. E. Conway. Theory and Principles of Electrode Processes	291	623
Reviewed by L. I. Krishtalik	582	624
M. V. Smirnov and S. F. Pal' guev	584	627
Number 6 June, 1966		
Structure of Organomercury Compounds and Their Polarographic Properties		
-K. P. Butin, I. P. Beletskaya, and O. A. Reutov		635
Solutions of Nitrates-V. Sh. Palanker, A. M. Skundin, and V. S. Bagotskii Influence of the Nature of the Ligands on the Exchange Current in the Overcharging of Chloride, Bromide, and Iodide Complexes of Di- and Tetravalent Platinum	592	640
-V. I. Kravtsov and B. V. Simakov	598	646
-V. A. Kazakov and A. T. Vagramyan	604	652
-V. V. Gorodetskii and V. V. Losev	607	656

	Engl./	Russ
Peculiarities of the Influence of Iodide Ions on the Kinetics of Electrode Processes on Bismuth		
Amalgam-V. V. Gorodetskii and V. V. Losev	614	664
on the Potential and Current Distribution in the Electrode-V.S. Daniel'-Bek The Problem of the Anodic Behavior of Lead in Alkaline Solutions, II. Galvanostatic	621	672
and Potentiostatic Measurements—S.S. Popova and A.V. Fortunatov Investigation of Semiconducting Catalyst Electrodes. III. Investigation of the Electrochemical Reversibility of the Oxidation of the $\text{Li}_{x}\text{Cu}_{(1-x)}\text{O}$ Solid Solution—É.G. Misyuk,	627	678
O. K. Davtyan, and T. V. Priima	632	683
System-Z.S. Alagova, E. A. Materova, and T. V. Dobrodskaya Mixed Kinetic Body-Surface Currents in Polarography-S. G. Maironovskii, E. D. Belokolos,	637	688
V. P. Gul'tyai, and L. I. Lishcheta	641	693
-M. I. Bashmakova and P. K. Mitskevich;	647	700
and D. V. Sokol'skii Theoretical Investigation of the Thermodynamic Properties of Solutions of Strong Electrolytes by the Monte Carlo Method-P. N. Vorontsov-Vel'yaminov, A. M. El'yashevich,	651	704
and A. K. Kron	655	708
Unusual Polarographic Behavior of Some Substituted Benzols: Cinnamic Alcohol		
and Methylbenzoate – V. G. Mairanovskii and G. I. Samokhvalov	663	717
of a NaCl Solution-V. L. Kubasov and G. I. Volkov	665	718
Electroreduction Kinetics of Quinoline: I-N.E. Khomutov and V. V. Tsodikov On the Incorporation of Sulfur into Nickel Galvanic Coatings from Solutions Containing	669	722
Saccharine and p-Toluenesulfamide-S. I. Krichmar Influence of Lower Chlorides of Titanium on the Electrode Potentials of Certain Metals	673	726
in Molten Salts-N. I. Anufrieva	676	729
with Charge Transfer, Introduced into the Polymer Film-É. A. Silin'	0.00	=0.0
and D. É. Plumane	679 682	732 734
Permanganate—A. P. Gindis The Influence of Surface-Active Additions, Subjected to the Action of an Ultrasonic Field, on the Growth of an Electrolytic Single Crystal of Silver—A. M. Ginberg,	684	737
Yu. E. Titov, and A. T. Vagramyan	686	739
K. G. Parfenova, and O. A. Slotin	689	741
Chloride in a Bipolar Electrolyzer-V. K. Beidin	693	745
LETTERS TO THE EDITOR Electrochemical Method of Determining the Ohmic Resistance and Thickness of Films		
of Electrolytes on Metals - Yu. A. Mazitov	697	749
-L. G. Feoktistov and A. S. Solonar'	698	750

Number 7 July, 1966

Influence of the Structure of Electrolytic Cobalt and Insertion of Chloride Ions into a Deposit of It upon the Electrochemical Properties and Corrosion in Sulfuric Acid Solution		
-Z. A. Iofa and Wei Pao-ming	699	755
O. A. Esin, V. N. Boronenkov, and P. M. Shurygin	703	760
-Z. A. Solov'eva and A. E. Lapshina The Factors which Could Account for the Movement of Liquid Dielectrics in a Nonuniform	709	767
Electric Field-I. M. Solodovnichenko Determination of the Solubility of Germanium in Mercury by Amalgam Polarography	713	771
with Accumulation - O. S. Stepanova and M. S. Zakharov	718	777
and G. V. Yarunina	721	781
and E. A. Kalyuzhnaya	728	788
Investigation of Electrode Semiconductor Catalysts. V. On the Semiconductor Properties of Nickel and Copper Oxides, Caused by the Insertion of Potassium Ions into Them	120	100
-É. G. Misyuk, O. K. Davtyan, and M. V. Uminskii	731	791
-P. I. Protsenko, A. V. Protsenko, L. L. Gabitova, and K. P. Shatskaya On the Influence of Certain Backgrounds upon the Half-Wave Potential Difference	736	796
in the Reduction of Anthraquinone Derivatives—L. Ya. Kheifets and V. D. Bezuglyi Electrochemical Behavior of Indium in Solutions of Potassium Hydroxide. L. Investigation of the Principles and Mechanism of the Anodic Oxidation of Indium—F. F. F. Faizullin	740	800
and N. A. Amirkhanova	744	805
Value of the Standard Potential, Exchange Current, and Activation Energy of the Process		
Occurring on a Cobalt Electrode-M. V. Simonova and A. L. Rotinyan	751	812
Diffusion Potentials in Electrolytes Consisting of Molten Salts—M. V. Smirnov and E. A. Kokh Photoelectrochemical Method of Approximate Measurements of the Length of Diffusion in Samicanductors—V. V. Electricis and Vu. V. Blackey.	753	814
in Semiconductors – V. V. Eletskii and Yu. V. Pleskov	75 6 75 9	817
On the Behavior of a Lead-Sodium Glass Electrode in Salt Melts-A. F. Alabyshev, A. G. Morachevskii, and I. Ya. Feenberg	762	820 822
Method of Compensating Temperature Errors in Electrochemical Transformers – B. M. Grafov, A. B. Gruzdev, P. D. Lukovtsev, M. A. Novitskii, and L. A. Sokolov	766	825
Peaks on the Curves of Differential Capacitance and the Structure of the Surface Layer. II	769	828
-B. B. Damaskin	772	831
Method of Measuring the Mobility of Ions in Dielectric Liquids-B. I. Sazhin and V. P. Shuvaev	112	001
On the Cause of the Change in the Electrochemical Properties of Platinum in the Region of Anodic Potentials – G. P. Girina and V. E. Kazarinov	776	835
Negative Photoconductivity of Ether Solutions of Iodine and Bromine - Yu. M. Stolovitskii, T. N. Trofimova, A. M. Nemchenko, Yu. K. Fedorov, and Yu. A. Kopylov Flectrocystallization of Cobalt from an Accesse Flectrolyte - M. Ya. Poperska	778	837
Electrocrystallization of Cobalt from an Acetate Electrolyte – M. Ya. Popereka and K. A. Siletskaya	780	838
-E. F. Speranskaya and D. B. Mambeeva	784	842

	Engl./	Russ
The Action of Outside Sources of Interference on an Electrochemical Cell when Using High-Speed Electronic Potentiostats-L. L. Knots and V. N. Alekseev Electrical Conductivity of a Cathode Film Formed in a Solution of Chromic Acids	788	846
-N. I. Knyazev, V. N. Matveev, and V. L. Khudyakov	792	850
-T. I. Lezhava	797	854
and A. A. Pereverzev	800	857
Solutions – M. M. Flisskii	803	860
and B. S. Yavich	807	864
L. I. Antropov. Theoretical Electrochemistry-Reviewed by N. V. Fedorovich and B. B. Damaskin	810	867
S. G. Mairanovskii, Catalytic and Kinetic Waves in Polarography—Reviewed by S. I. Zhdanov	811	868
Number 8 August, 1966		
Comments on: Structure of the Double Electric Layer at the Metal-Solution Boundary		
- A. N. Frumkin, B. B. Damaskin, and Yu. A. Chizmadzher	813	875
of the Test Electrode in a Cell with High Voltage Drop-L. L. Knots and V. N. Alekseev Mechanism of the Reaction of Carbon Monoxide with Platinized Platinum in Electrolytic Solutions	818	880
-G. L. Padyukova, A. B. Fasman, and D. V. Solkol'skii	823	885
N. S. Bubyreva, and M. I. Pashchenko	829	892
during Exchange by Contact- E. M. Golubchik and M. F. Skalozubov	834	896
Electrodissolution of Metals from the Surface of an Inert Electrode. II—Kh. Z. Brainina Transport Phenomena in Semiconducting Melts of Thallium Sulfides and Selenides	838	901
-D. K. Belashchenko, I. A. Magudson, G. I. Belashchenko, and L. G. Lyapunova Effect of the Structure and Energy State of the Surface of the Copper Electrode on the Electrode	843	906
Reaction Kinetics—A. I. Levin, V. M. Rudoi, L. A. Kryuchkov, and L. M. Gryaznukhina On the Influence of Certain Additives upon the Kolbe-Type Processes of Anodic Condensation	850	914
-I. A. Avrutskaya and M. Ya. Fioshin	855	920
and M. É. Khaga	861	927
-S. S. Beskorovainaya, O. A. Khazova, Yu. B. Vasil'ev, and V. S. Bagotskii	866	932
-Yu. M. Polukarov The Kinetics and Mechanism of the Anodic Process in the Oxidation of Chloride Ions on Platinum	870	937
in Sulfuric Acid Solutions-M. M. Flisskii	874	942
A. G. Pshenichnikov, and R. Kh. Burshtein Diffusion of Uranium and Molybdenum Ions in Molten Chlorides of the Alkali Metals	879	948
-M. V. Smirnov and O. M. Shabanov	883	953
BRIEF COMMUNICATIONS Texture of Tin-Nickel Electrolytically Deposited Alloys – S. M. Kochergin, G. R. Pobedimskii,		
and A. I. Zhikharev	887	958

	Engl./	Russ.
Influence of the Resistivity of Silicon and Illumination of the Electrode on the Kinetics of		
Electrochemical Oxidation-S. P. Maminova	889	959
Effect of Solvation of Ions in the Double Layer-V. A. Kur'yanov	892	963
V. K. Perevozkin, and A. B. Filosofova	895	966
Orthophosphoric Acid Solutions-S. I. Krichmar, A. Ya. Pronskaya, and K. F. Afendik	896	967
Electrolytic Deposition of Iron with Alternating Current—M. Ya. Popereka and V. I. Avramenko Use of the Disc Electrode for Determining the Diffusion Coefficients of Lead, Copper, and Zinc	900	971
Ions in Slags in Nonferrous Metallurgy-Yu. M. Suzov and O. A. Esin	904	974
Interfaces - R. I. Kaganovich and V. M. Gerovich	907	977
of Organic Substances—B. B. Damaskin and S. L. Dyatkina	912	981
N. M. Alpatova, and Yu. M. Kessler	915	984
Solution—V. K. Altukhov and I. K. Marshakov	916	985
[Translated from English])-Reported by Yu. A. Chizmadzher		989]
Number 9 September, 1966		
The Equation of the Wave for Simultaneous Reduction at a Dropping Mercury Electrode		
of Two Substances Taking Part in a Rapid Chemical Reaction-É. S. Levin The Problem of the Increase in Hydrogen Overpotential on Iron during Cathodic Polarization	919	995
in Alkaline Solutions - A. P. P'yankova, V. V. Batrakov, and Z. A. Iofa	923	1000
The Electrodissolution of Metals from the Surface of an Inert Electrode. III.—Kh. Z. Brainina Investigation of the Interaction of Carbon Monoxide with a Ruthenium Electrode in Solutions	928	1006
of Electrolytes—Z. N. Novikova, A. B. Fasman, and D. V. Sokol'skii	935	1015
and Yu. A. Mazitov	940	1021
of Electrolyte-V. A. Shepelin, Ts. I. Zalkind, and V. I. Veselovskii	946	1028
-M. L. Ezerskii	953	1037
Anodic Polarizations T. N. Glazatova and V. S. Daniel'-Bek	958	1042
Evolution -S. I. Zhdanov and A. A. Pozdeeva	962	1047
-G. Z. Kazakevich, I. E. Yablokova, and V. S. Bagotskii	969	1055
The Piezoelectrochemical Effect and Its Possible Applications—A. Ya. Gokhshtein	974	1061
-M. M. Shul'ts, N. V. Peshekhonova, and M. N. Plotnikova	979	1067
Particles – A. T. Sklyarov and Ya. M. Kolotytkin		1073 1079

	Liigi./	nuss.
BRIEF COMMUNICATIONS		
The Relations between the Limiting Diffusion Currents at Rotating-Disk, Ring, and Ring-Disk		
Electrodes - S. Bruckenstein	995	1085
and I. L. Roikh	999	1089
and V. V. Treier	1002	1092
Investigation of the Mechanism of Anodic Processes in the Electrolysis of Solutions of Monoesters of Dicarboxylic Acids. II. Methanol Solutions—L. A. Mirkind, M. Ya. Fioshin,		
and D. Konstantinesku	1005	1095
-A. M. Lysova and A. S. Kolosov	1009	1098
A. V. Volkovich, S. P. Raspopin, and V. E. Alenichev	1012	1101
Concentration Limiting Currents on Anodic Polarization Curves—S. I. Krichmar	1015	1103
A. M. Khopin, and M. R. Tarasevich	1017	1105
On the Photodipole Effect in Organic Semiconductors-Yu. A. Vidadi and L. D. Rozenshtein Electromigration of Sodium and Calcium in Molten Mixtures of Their Nitrates	1019	1106
-V. P. Shvedov, I. A. Ivanov, and I. M. Barbashinov	1021	1108
S. A. Brusentseva, P. I. Dolin, and V. N. Shubin	1023	1110
and Cinnamonitriles-I. G. Sevast'yanova and A. P. Tomilov	1026	1113
OBITUARY Vladimir Sergeevich Daniel'-Bek-A. N. Frumkin, P. V. Ogromnov, Yu. V. Lyzlov,		
and R. Kh. Burshtein	1028	1116
Number 10 October, 1966		
Overvoltage of Hydrogen on Mercury at Low Current Densities. III. Influence of the Activity		
of Water - L. I. Krishtalik	1029	1123
Influence of Light on the Kinetics of Coupled Electrochemical Reactions in the Process of Autodissolution of Silicon in a Mixture of HF-HNO ₃ . I. Change in the Electrochemical		
Characteristics of Silicon after Preliminary Illumination – F. F. Red'ko and S. O. Izidinov A Study of the Mechanism of Anodic Dissolution and Electrodeposition of Palladium	1034	1128
in Chloride Electrolytes - V. I. Kravtsov and M. I. Zelenskii	1042	1138
On the Kinetics of Deposition of Radioactive Substances on the Anode - I. Madi	1047	1144
- V. N. Titova and A. T. Vagramyan	1052	1149
Metals under Conditions of Convective Diffusion - Yu. K. Delimarskii and G. V. Shilina	1056	1154
Electrodissolution of Metals from the Surface of an Indifferent Electrode. IV. Experimental Criteria		
of Reversibility of the Process of Silver Dissolution – Kh. Z. Brainina and V. B. Belyavskaya Influence of Gamma Radiation on the Reduction of Oxygen on a Platinum Electrode in Alkaline	1060	1158
Solutions - Ts. I. Zalkind, V. A. Shepelin, and V. I. Veselovskii	1066	116
A New Radiochemical Method for Investigating Adsorption from Solutions – V. E. Kazarinov Hydrogen Overvoltage on Mercury at Low Current Densities. IV. Temperature Dependence of the	1070	117
Overvoltage - L. I. Krishtalik	1075	117
Dropping Mercury Electrode — Ya. I. Tur'yan and O. N. Malyavinskaya	1082	118

	Engl./I	Russ.
BRIEF COMMUNICATIONS		
Ionization of Oxygen on a Smooth Platinum Electrode in Phosphoric Acid Solutions		
- L. A. Mazitov, N. A. Fedotov, and Yu. A. Mazitov	1086	1189
Cathode Metal - A. S. Goral'nik	1090	1193
Obtained from Nitrate Electrolytes - N. N. Balashova and L. I. Klimenkova Mechanism of Riffled Metal Deposit Formation during Electrocrystallization in a Stationary	1093	1196
Ultrasonic Field - A. V. Bondarenko	1096	1197
Deposits - A. V. Pomosov, L. M. Kurvyakova, and G. M. Anosova	1099	1200
in a Liquid Porous Electrode — N. V. Korovin	1102	1203
Electrochemical Fluorination of Symmetrical Dichloroethane - G. N. Kokhanov and T. M. Izmailova	1104	1204
Photoreduction of Safranine by Ascorbic Acid – Kh. L. Arvan and R. I. Khamidulin Ratio between the Values for Hydrogen Overpotential on Solid and Liquid Gallium of a High Degree	1106	1207
of Purity — E. Preis, K. Sabot, S. Raicheva, and L. A. Bagotskaya	1108	1209
- V. F. Khonina, L. M. Roshchupkina, V. F. Ivanov, and Z. A. Iofa Electrochemical Properties of the Gallium Electrode: The Copper-Thallium-Gallium System	1111	1212
- I. G. Vasil'eva	1114	1214
- A. M. Skundin and V. S. Bagotskii	1117	1217
- V. M. Kochegarov and T. P. Lomakina	1120	1220
- Z. A. Rotenberg, S. D. Levina, and L. A. Korob	1124	1224
L. F. Kozin, Physicochemical Principles of Amalgam Metallurgy - Reviewed by V. V. Losev	1128	1229
CHRONICLES Seminar on Contamporary Methods of Manitoring the Proportion of Calvania Continue		
Seminar on Contemporary Methods of Monitoring the Properties of Galvanic Coatings	1100	1001
- Z. A. Solov'eva	1130	1231
Number 11 November, 1966		
Use of Electrocapillary Curves to Study the Structure of the Electrical Double Layer on Gallium		
-A. M. Morozov, N. B. Grigor'ev, and I. A. Bagotskaya	1131	1235
and A.P. Khaimenov	1136	1240
The Problem of Equilibrial Fluctuations in the Stationary State—B. M. Grafov	1144	1249
Solution—V. P. Belokopytov and N. A. Aladzhalova	1149	1255
S. Yu. Baigil'dina, and Yu. P. Kitaev	1156	1263
Alternating Current Bridge-L. L. Knots, D. I. Leikis, and V. N. Alekseev On the Formation of Chlorates in the Electrochemical Method of Their Production. I.	1162	1269
-V. A. Shlyapnikov and T. S. Filippov	1165	1273

	Engl.	Russ.
The Effect of Light on the Kinetics of Conjugate Electrochemical Reactions during Self- Dissolution of Silicon in an HF-HNO ₃ Mixture. II. Regularities Governing Variation in the Self-Dissolution Rate of Silicon with a Potential in Darkness and under Stationary		
Illumination-F. F. Red'ko and S. O. Izidinov	1173	1282
The Use of Probes in Precise Potential Measurements-N, P, Gnusin and A, I, Maslii	1180	1291
Study of the Anodic Oxidation of Hydrazine on Smooth Nickel in Alkaline Solution		
-B. P. Nesterov and N. V. Korovin	1184	1296
On the Mechanism of the Incomplete Reduction of Chromic Acid-Z. A. Solov'eva	1188	1301
Influence of Temperature on the Zero-Charge Potentials of Certain Metals in Molten Lithium	2204	1000
and Potassium Chlorides T. N. Prisekina, V. A. Kuznetsov, and N. P. Malyutina	1194	1307
Cathodic Reduction of a Mercuric Oxide Electrode—É, A. Mendzheritskii and V. S. Bagotskii A Determination of the Relation between the Surface Tension of the Solid Electrode and the	1198	1312
Potential—A. Ya. Gokhshtein	1204	1318
Fotential A, 1a. Consistent.	1204	1010
BRIEF COMMUNICATIONS		
Influence of Surface Active Materials on the Structure of a Passivating Layer of Lead Sulfate		* * * * * * * * * * * * * * * * * * * *
-É. G. Yampol'skaya, M. I. Ershova, I. I. Astakhov, and B. N. Kabanov	1211	1327
The Problem of Electrochemical Kinetics in the Case of a Solid Electrolyte - S. V. Karpachev	1215	1330
and A. T. Filyaev	1215	1000
B. É. Davydov, and M. V. Shishkina	1217	1332
The Effect of Electrode Polarization on the Distribution of Current in a Special Type of Cell		
-V. T. Ivanov	1220	1335
Effect of Some Organic Substances on the Structure of the Double Electric Layer on Platinum		
-V. E. Kazarinov and G. N. Mansurov	1223	1338
Differential Capacitance Curves of a Mercury Electrode in Acid Solutions of Aniline		
-S. L. Dyatkina and B. B. Damaskin	1225	1340
The Crystalline Structure of Phthalocyanine and the Conductivity of Systems Consisting of a		
Metal Covered with a Phthalocyanine Film-S. D. Levina, I. I. Astakhov, K. P. Lobanova,		
and Z. A. Rotenberg	1228	1343
Electrochemical Processes Verifiable by Diffusion When the Diffusion Coefficient Depends on the	1000	
Concentration - S. I. Krichmar	1230	1345
and I. V. Tomskikh	1233	1347
The Electrochemical Properties of Membranes of Anion Exchange Resins with Different Ionogenic	1200	1041
Group Structures, III. Estimation of the Mobilities of Ions in Membranes of ASD Anion		
Exchange Resins - T. I. Rozhanskaya and E. A. Materova	1236	1349
Methods of Deriving Electrochemical Kinetic Equations-L, I. Krishtalik	1238	1351
The Dependence of the Limiting Current on a Rotating Disc Electrode on the Concentration of a		
Foreign Electrolyte-V. V. Malev and Ya. V. Durdin	1240	1354
Relation between Adsorption of Cations of Cadmium and Thallium on Platinum and Temperature		
-G. N. Mansurov and N. A. Balashova	1244	1358
V. S. Markin	10.40	1000
Comparison of the Theoretical and Experimental Values of the Parameters of a Reversible Anode	1246	1360
Tooth on a Mercury Film Electrode-A. G. Stromberg and L. F. Trushina	1249	1363
Number 12 December, 1966		
Electrochemical Behavior of Iron in Sulfuric Acid Solutions-Ya. D. Zytner	1055	1000
and A. L. Rotinyan	1253	1371

	Engl./Russ.	
Anodic Behavior of Indium in Solutions of Potassium Hydroxide. II. Investigation of the Anodic Passivation of Indium under Conditions		
of Formation of a Phase Oxide Film—F. F. Faizullin and N. A. Amirkhanova	1264 1269	
-G. A. Korchinskii and E. F. Fedorov Electrochemical Oxidation and Reduction of Hydrazinium Ions-V. S. Daniel'-Bek	1274	1395
and T. N. Glazamova	1279	1400
and B. L. Klyuev	1284	1405
Water-Dioxane Solutions-V. P. Gul'tyai and S. G. Mairanovskii	1292	1414
Indene Compounds—A. K. Gailis, É. A. Silin', and Ya. F. Freimanis A Study of the Influence of Surface -active Substances on the Rate of Growth of a Single Crystal of Silver during Electrolysis—M. S. Zubov	1297	1420
and A. T. Vagramyan	1302	1426
L. E. Sribnyi, and A. I. Molodov	1306	1431
and N. A. Balashova	1312	1438
-N. A. Zotov and K. B. Khlystova	1317	1444
-N. B. Grigor'ev and I. A. Bagotskaya Ionization of Chlorine on Platinum and Iridium Electrodes in a Molten Eutectic of AlCl ₃ -NaCl-KCl-A. M. Skundin, V. Sh. Palanker,	1321	1449
and V. S. Bagotskii	1325	1453
and D. V. Sokol'skii BRIEF COMMUNICATION	1329	1457
Origin of Hysteresis Loops on 1 versus l Curves in Experiments with Semi-immersed	1995	1 4 6 4
Electrodes—Yu. A. Chizmadzhev and Yu. I. Kharkats		1464
and N-Methylformamide-Yu. M. Kessler Nuclear Magnetic Resonance and the Electrical Properties of Polyacetylene		1467
-V. I. Shepelev, A. I. Maklakov, F. M. Nasirov, and B. E. Davydov Obtaining Insoluble Rare-Earth Hydroxides at a Cathode Surface		1468
-B. K. Petrin and N. S. Bubyreva Electric Properties of Organic Semiconductors with a Polyvinylacetate Base		1470
-A. V. Vannikov, L. P. Sidorova, V. I. Yakovenko, and N. A. Bakh		1474
- T. I. Popova, N. A. Simonova, and B. N. Kabanov Adsorption of Organic Substances at the Interface between Mercury and Thallium	1347	
Nitrate Solution—M. M. Andrusev, N. Kh. Ayupova, and B. B. Damaskin The Problem of the Structure of the Dense Part of the Double Layer		1480
-L. I. Krishtalik Use of a Rotating Disc Electrode with Ring to Study the Mechanism of the Passivation of Metals-A. I. Oshe, Ya. Ya. Kulyavik, T. I. Popova.	1354	1483
and B. N. Kabanov	1356	1485

	Engl./	Russ
Nature of the Fall in Polarographic Catalytic Hydrogen Waves in Nonbuffer		
Solutions of Pyridine and Its Homologs-M. K. Polievktov and S. G. Mairanovskii	1358	1487
Contact of the Electrode and the Cationic Exchange Membrane during		
Electrochemical Oxidation of Hydrogen-A. B. Khanin	1362	1491
LETTERS TO THE EDITOR		
Desorption Kinetics of Methanol from a Platinum Electrode-S. S. Beskorovainaya,		
Yu. B. Vasil'ev, and V. S. Bagotskii	1364	1493
INDEX		
Author Index, Volume 2, 1966	1367	
Table of Contents, Volume 2, 1966	1371	

NOTE

This index lists all material that appears in the original Russian journal. Items originally published in English or generally available in the West are not included in the translation and are shown in brackets. Whenever possible, the English-language source containing the omitted items is given.



